



EXPRESS MAIL NO. EV889152854US

Sheet 1 of 8

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)ATTY. DOCKET NO.
890050.436APPLICATION NO.
10/637,407APPLICANTS
Masaki Aoshima et al.FILING DATE
August 7, 2003GROUP ART UNIT
1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	AA	4,405,706	09/20/83	Takahashi et al.	430	271	
W	AB	4,500,889	02/19/85	Wada et al.	346	1.1	
W	AC	4,529,991	07/16/85	Wada et al.	346	76 L	
W	AD	4,609,611	09/02/86	Sigyo et al.	430	270	
W	AE	4,682,321	07/21/87	Takaoka et al.	369	284	
	AF	5,328,813	07/12/94	Strandjord et al.	430	321	
W	AG	5,459,018	10/17/95	Akahira	430	270	
W	AH	5,560,998	10/01/96	Oyamatsu et al.	428	694 ML	
W	AI	5,745,467	04/28/98	Sakaue et al.	369	116	
	AJ	5,818,808	10/06/98	Takada et al.	369	116	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

11/9/07

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.
	890050.436	10/637,407
	APPLICANTS	
	Masaki Aoshima et al.	
	FILING DATE	GROUP ART UNIT
	August 7, 2003	1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	AA	5,871,881	02/16/99	Nishida et al.	430	270.11	
	AB	5,949,747	09/07/99	Miyashita et al.	369	54	
	AC	5,958,649	09/28/99	Hirotsune et al.	430	270.13	
	AD	6,187,406	02/13/01	Ichihara et al.	428	64.1	
W	AE	6,245,404	06/12/01	Saito et al.	428	64.1	
	AF	6,278,680	08/21/01	Miyauchi et al.	369	112.01	
W	AG	6,333,913	12/25/01	Yoshinari et al.	369	283	
W	AH	6,345,026	02/05/02	Furukawa et al.	369	59.11	
	AI	6,404,712	06/11/02	Lee et al.	369	47.53	
	AJ	6,404,713	06/11/02	Ueki	369	47.53	
	AK	6,416,837	07/09/02	Kojima et al.	428	64.1	
W	AL	6,528,138	03/04/03	Meinders et al.	428	64.1	
	AM	6,611,481	08/26/03	Koishi et al.	369	47.53	
	AN	6,660,451	12/09/03	Sakaue et al.	430	270.13	
	AO	6,670,014	12/30/03	Nishihara et al.	428	64.1	
W	AP	6,699,591	03/02/04	Ishida et al.	428	641	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AQ					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
EXAMINER	DATE CONSIDERED 11/9/07

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.
	890050.436	10/637,407
	APPLICANTS	
	Masaki Aoshima et al.	
	FILING DATE	GROUP ART UNIT
	August 7, 2003	1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	AA	6,741,547	05/25/04	Tomura et al.	369	275.4	
<i>W</i>	AB	6,751,184	06/15/04	Kojima et al.	369	275.2	
<i>W</i>	AC	6,757,232	06/29/04	Yamada et al.	369	59.12	
<i>W</i>	AD	6,791,926	09/14/04	Furumiya et al.	369	53.13	
<i>W</i>	AE	6,809,859	10/26/04	Erdogan et al.	359	359	
<i>W</i>	AF	6,821,707	11/23/04	Uno et al.	430	270.13	
	AG	6,929,840	08/16/05	Hosoda et al.	428	64.1	
<i>W</i>	AH	6,986,152	01/10/06	Takemoto et al.	720	718	
<i>W</i>	AI	7,006,419	02/28/06	Yokoi	369	59.11	
	AI	7,018,694	03/28/06	Hosoda et al.	428	64.1	
<i>W</i>	AK	7,130,256	10/31/06	Toda et al.	369	59.11	
<i>W</i>	AL	7,142,496	11/28/06	Miyagawa et al.	369	59.11	
<i>W</i>	AM	7,143,426	11/28/06	Mishima et al.	720	718	
<i>W</i>	AN	7,169,533	01/30/07	Sakaue et al.	430	270.13	
<i>W</i>	AO	7,190,650	03/13/07	Fujiune et al.	369	53.22	
<i>W</i>	AP	2001/0005343	06/28/01	Shoji et al.	369	47.51	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AQ					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
EXAMINER	DATE CONSIDERED
<i>W</i>	11/7/07

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 890050.436	APPLICATION NO. 10/637,407
	APPLICANTS Masaki Aoshima et al.	
	FILING DATE August 7, 2003	GROUP ART UNIT 1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	AA	2002/0160306	10/31/02	Hanaoka et al.	430	270.13	
<i>W</i>	AB	2003/0134229	07/17/03	Yasuda et al.	430	270.13	
	AC	2004/0013069	01/22/04	Uno et al.	369	59.11	
<i>W</i>	AD	2004/0052176	03/18/04	Narumi et al.	369	47.39	
	AE	2004/0174796	09/09/04	Mizushima et al.	369	94	
<i>W</i>	AF	2005/0047306	03/03/05	Inoue et al.	369	94	
	AG	2005/0243676	11/03/05	Kato et al.	369	59.11	
	AH	2006/0013111	01/19/06	Inoue et al.	369	125	
<i>W</i>	AI	2002/0110063	08/15/02	Yamada et al.	369	47.39	
<i>W</i>	AJ	7,154,844	12/26/06	Usami	369	286	
<i>W</i>	AK	7,167,431	01/23/07	Miura et al.	369	59.11	
	AL						
	AM						
	AN						
	AO						
	AP						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AQ					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	
--	----	--

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 890050.436	APPLICATION NO. 10/637,407
	APPLICANTS Masaki Aoshima et al.	
	FILING DATE August 7, 2003	GROUP ART UNIT 1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>W</i>	AB	54-133134	10/16/79	JP (+ Abstract in English)		
<i>W</i>	AC	60-219097	11/01/85	JP (+ Abstract in English)		
<i>W</i>	AD	62-226440	10/05/87	JP (+ Abstract in English)		
	AE	1-270528	10/27/89	JP (+ Abstract in English)		
	AF	3-5929	01/11/91	JP (+ Abstract in English)		
	AG	4-298389	10/22/92	JP (+ Abstract in English)		
	AH	5-342635	12/24/93	JP (+ Abstract in English)		
	AI	5-342631	12/24/93	JP (+ Abstract in English)		
	AJ	5-159358	06/25/93	JP (+ Abstract in English)		
	AK	6-262854	09/20/94	JP (+ Abstract in English)		
	AL	9-7176	01/10/97	JP (+ Abstract in English)		
<i>W</i>	AM	10-134919	05/22/98	JP (+ Abstract in English)		
<i>W</i>	AN	10-143919	05/29/98	JP (+ Abstract in English)		
	AO	2000-297365	10/24/00	JP (+ Abstract in English)		
<i>W</i>	AP	2 336 463	10/20/99	GB		
<i>W</i>	AQ	1 122 723	08/08/01	EP		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
----	--

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 890050.436		APPLICATION NO. 10/637,407	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Masaki Aoshima et al.			
				FILING DATE August 7, 2003		GROUP ART UNIT 1756	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA							

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	2000-222764	08/11/00	JP (+ Abstract in English)		
	AC	2000-285509	10/13/00	JP (+ Abstract in English)		
<i>u</i>	AD	2001-101709	04/13/01	JP (+ Abstract in English)		
	AE	2001-222819	08/17/01	JP (+ Abstract in English)		
<i>u</i>	AF	2001-266402	09/28/01	JP (+ Abstract in English)		
	AG	2001-322357	11/20/01	JP (+ Abstract in English)		
	AH	1 215 669	06/19/02	EP		
	AI	1365108	08/21/02	CN (+ Abstract in English)		
	AJ	2002-329348	11/15/02	JP (+ Abstract in English)		
<i>u</i>	AK	2003-105738	04/09/03	JP (+ Abstract in English)		
<i>u</i>	AL	2003-77185	03/14/03	JP (+ Abstract in English)		
	AM	2003-178448	06/27/03	JP (+ Abstract in English)		
	AN	2003-260874	09/16/03	JP (+ Abstract in English)		
	AO	2003-326848	11/19/03	JP (+ Abstract in English)		
	AP	2004-39177	02/05/04	JP (+ Abstract in English)		
	AQ	2004-158134	06/03/04	JP (+ Abstract in English)		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR		

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>11/9/07</i>
-----------------------------	--------------------------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPIP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.
	890050.436	10/637,407
	APPLICANTS	
	Masaki Aoshima et al.	
	FILING DATE	GROUP ART UNIT
	August 7, 2003	1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	02/29787	04/11/02	WIPO (+ Abstract in English)		
W	AC	1 195 756	04/10/02	EP		
	AD	58-220794	12/22/83	JP (+ Abstract in English)		
W	AE	1 143 724	10/10/01	EP		
W	AF	3-258590	11/18/91	JP (+ Abstract in English)		
W	AG	2002-150563	05/24/02	JP (+ Abstract in English)		
W	AH	2002-15426	01/18/02	JP (+ Abstract in English)		
W	AI	2001-143265	05/25/01	JP (+ Abstract in English)		
	AJ	7-235465	09/05/95	JP (+ Abstract in English)		
	AK	9-7176	01/10/97	JP (+ Abstract in English)		
W	AL	2000-276736	10/06/00	JP (+ Abstract in English)		
W	AM	98/28735	07/02/98	WIPO (+Abstract in English)		
W	AN	7-129959	05/19/95	JP (+ Abstract in English)		
W	AO	7-225947	08/22/95	JP (+ Abstract in English)		
W	AP	4-838	01/06/92	JP (+ Abstract in English)		
W	AQ	3-258590	11/18/91	JP (+ Abstract in English)		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
----	--

EXAMINER

DATE CONSIDERED

11/9/07

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 890050.436		APPLICATION NO. 10/637,407	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Masaki Aoshima et al.			
				FILING DATE August 7, 2003		GROUP ART UNIT 1756	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA							

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
				YES	NO	
W	AB	62-226442	10/05/87	JP (+ Abstract in English)		
W	AC	56-124134	09/29/81	JP (+ Abstract in English)		
W	AD	2002-237037	08/23/02	JP (+ Abstract in English)		
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					
	AO					
	AP					
	AQ					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
AR			
EXAMINER		DATE CONSIDERED	
		11/9/03	

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).